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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/901,737

DATE: 07/24/2001

TIME: 11:36:05

Input Set : N:\Crif3\RULE60\09901737.txt

Output Set: N:\CRF3\07242001\I901737.raw

## SEQUENCE LISTING

## 4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Lebel, Edouard  
 7 Heifetz, Peter  
 8 Ward, Eric  
 9 Uknes, Scott

ENTERED

11 (ii) TITLE OF INVENTION: Novel Transgenic Plants

13 (iii) NUMBER OF SEQUENCES: 19

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Novartis Corporation

17 (B) STREET: 3054 Cornwallis Road

18 (C) CITY: Research Triangle Park

19 (D) STATE: NC

20 (E) COUNTRY: USA

21 (F) ZIP: 27709

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--&gt; 30 (A) APPLICATION NUMBER: US/09/901,737

C--&gt; 31 (B) FILING DATE: 11-Jul-2001

32 (C) CLASSIFICATION:

42 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: 09/254,780

36 (B) FILING DATE:

39 (A) APPLICATION NUMBER: US 60/054,528

40 (B) FILING DATE: 04-AUG-1997

43 (A) APPLICATION NUMBER: US 60/025,985

44 (B) FILING DATE: 12-SEP-1996

46 (viii) ATTORNEY/AGENT INFORMATION:

47 (A) NAME: Meigs, J. Timothy

48 (B) REGISTRATION NUMBER: 38,241

49 (C) REFERENCE/DOCKET NUMBER: CGC1884/PCT

51 (ix) TELECOMMUNICATION INFORMATION:

52 (A) TELEPHONE: 919-541-8587

53 (B) TELEFAX: 919-541-8689

56 (2) INFORMATION FOR SEQ ID NO: 1:

58 (i) SEQUENCE CHARACTERISTICS:

59 (A) LENGTH: 13 base pairs

60 (B) TYPE: nucleic acid

61 (C) STRANDEDNESS: single

62 (D) TOPOLOGY: linear

64 (ii) MOLECULE TYPE: other nucleic acid

65 (A) DESCRIPTION: /desc = "Consensus translation

W--> 66 initiator sequence for the expression of the E. coli uidA  
 gene

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W--> 67                                in plants, as suggested by Clontech."
72      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
74      GTCGACCATG GTC                                     13
76      (2) INFORMATION FOR SEQ ID NO: 2:
78          (i) SEQUENCE CHARACTERISTICS:
79              (A) LENGTH: 12 base pairs
80              (B) TYPE: nucleic acid
81              (C) STRANDEDNESS: single
82              (D) TOPOLOGY: linear
84          (ii) MOLECULE TYPE: other nucleic acid
85              (A) DESCRIPTION: /desc = "Consensus translation
W--> 86                                initiator sequence for the expression of the E. coli uidA
gene
W--> 87                                in plants, as suggested by Joshi."
92      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
94      TAAACAATGG CT                                     12
96      (2) INFORMATION FOR SEQ ID NO: 3:
98          (i) SEQUENCE CHARACTERISTICS:
99              (A) LENGTH: 22 base pairs
100             (B) TYPE: nucleic acid
101             (C) STRANDEDNESS: single
102             (D) TOPOLOGY: linear
104          (ii) MOLECULE TYPE: other nucleic acid
105              (A) DESCRIPTION: /desc = "Molecular adaptor used to
W--> 106                                generate the vector pCGNSENX."
111      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
113      AATTCTAAAG CATGCCGATC GG                         22
115      (2) INFORMATION FOR SEQ ID NO: 4:
117          (i) SEQUENCE CHARACTERISTICS:
118              (A) LENGTH: 21 base pairs
119              (B) TYPE: nucleic acid
120              (C) STRANDEDNESS: single
121              (D) TOPOLOGY: linear
123          (ii) MOLECULE TYPE: other nucleic acid
124              (A) DESCRIPTION: /desc = "Molecular adaptor used to
W--> 125                                generate the vector pCGNSENX."
130      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
132      AATTCCGATC GGCATGCTTT A                         21
134      (2) INFORMATION FOR SEQ ID NO: 5:
136          (i) SEQUENCE CHARACTERISTICS:
137              (A) LENGTH: 22 base pairs
138              (B) TYPE: nucleic acid
139              (C) STRANDEDNESS: single
140              (D) TOPOLOGY: linear
142          (ii) MOLECULE TYPE: other nucleic acid
143              (A) DESCRIPTION: /desc = "Molecular adaptor used in
W--> 144                                making pCGN1761NENX."
149      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
151      AATTCTAAAC CATGGCGATC GG                         22
153      (2) INFORMATION FOR SEQ ID NO: 6:

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155      (i) SEQUENCE CHARACTERISTICS:
156          (A) LENGTH: 21 base pairs
157          (B) TYPE: nucleic acid
158          (C) STRANDEDNESS: single
159          (D) TOPOLOGY: linear
161      (ii) MOLECULE TYPE: other nucleic acid
162          (A) DESCRIPTION: /desc = "Molecular adaptor used in
W--> 163              making pCGN1761NENX."
168      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
170 AATTCCGATC GCCATGGTTT A
172 (2) INFORMATION FOR SEQ ID NO: 7:
174      (i) SEQUENCE CHARACTERISTICS:
175          (A) LENGTH: 15 base pairs
176          (B) TYPE: nucleic acid
177          (C) STRANDEDNESS: single
178          (D) TOPOLOGY: linear
180      (ii) MOLECULE TYPE: other nucleic acid
181          (A) DESCRIPTION: /desc = "Molecular adaptor sequence
W--> 182              used in making vector pCGN1761/CT."
187      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
189 CCAGCTGGAA TTCCG
191 (2) INFORMATION FOR SEQ ID NO: 8:
193      (i) SEQUENCE CHARACTERISTICS:
194          (A) LENGTH: 19 base pairs
195          (B) TYPE: nucleic acid
196          (C) STRANDEDNESS: single
197          (D) TOPOLOGY: linear
199      (ii) MOLECULE TYPE: other nucleic acid
200          (A) DESCRIPTION: /desc = "Molecular adaptor sequence
W--> 201              used in making vector pCGN1761/CT."
206      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
208 CGGAATTCCA GCTGGCATG
210 (2) INFORMATION FOR SEQ ID NO: 9:
212      (i) SEQUENCE CHARACTERISTICS:
213          (A) LENGTH: 30 base pairs
214          (B) TYPE: nucleic acid
215          (C) STRANDEDNESS: single
216          (D) TOPOLOGY: linear
218      (ii) MOLECULE TYPE: other nucleic acid
219          (A) DESCRIPTION: /desc = "Primer E11"
224      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
226 GCGCCCATGG ACGAAGTCAA CCAGATTCGC
228 (2) INFORMATION FOR SEQ ID NO: 10:
230      (i) SEQUENCE CHARACTERISTICS:
231          (A) LENGTH: 24 base pairs
232          (B) TYPE: nucleic acid
233          (C) STRANDEDNESS: single
234          (D) TOPOLOGY: linear
236      (ii) MOLECULE TYPE: other nucleic acid

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237      (A) DESCRIPTION: /desc = "Primer E12"
242      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
244      CCAGTCGACG TTGGAGGTGA AGAC
246      (2) INFORMATION FOR SEQ ID NO: 11:
248          (i) SEQUENCE CHARACTERISTICS:
249              (A) LENGTH: 31 base pairs
250              (B) TYPE: nucleic acid
251              (C) STRANDEDNESS: single
252              (D) TOPOLOGY: linear
254          (ii) MOLECULE TYPE: other nucleic acid
255              (A) DESCRIPTION: /desc = "Primer E21"
260      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
262      GCGCGCCATG GCCAATGATT CTCCGTTCTA C
264      (2) INFORMATION FOR SEQ ID NO: 12:
266          (i) SEQUENCE CHARACTERISTICS:
267              (A) LENGTH: 24 base pairs
268              (B) TYPE: nucleic acid
269              (C) STRANDEDNESS: single
270              (D) TOPOLOGY: linear
272          (ii) MOLECULE TYPE: other nucleic acid
273              (A) DESCRIPTION: /desc = "Primer E22"
278      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
280      GGGACGGTTC TTCAGTCCGG CAGC
282      (2) INFORMATION FOR SEQ ID NO: 13:
284          (i) SEQUENCE CHARACTERISTICS:
285              (A) LENGTH: 29 base pairs
286              (B) TYPE: nucleic acid
287              (C) STRANDEDNESS: single
288              (D) TOPOLOGY: linear
290          (ii) MOLECULE TYPE: other nucleic acid
291              (A) DESCRIPTION: /desc = "Primer E51"
296      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
298      CGCCCATGGC CGGTCTCACC GCCACAGTC
300      (2) INFORMATION FOR SEQ ID NO: 14:
302          (i) SEQUENCE CHARACTERISTICS:
303              (A) LENGTH: 25 base pairs
304              (B) TYPE: nucleic acid
305              (C) STRANDEDNESS: single
306              (D) TOPOLOGY: linear
308          (ii) MOLECULE TYPE: other nucleic acid
309              (A) DESCRIPTION: /desc = "Primer E52"
314      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
316      GACGACCTCC CACTGGGAGA CGGTG
318      (2) INFORMATION FOR SEQ ID NO: 15:
320          (i) SEQUENCE CHARACTERISTICS:
321              (A) LENGTH: 31 base pairs
322              (B) TYPE: nucleic acid
323              (C) STRANDEDNESS: single
324              (D) TOPOLOGY: linear

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326      (ii) MOLECULE TYPE: other nucleic acid
327          (A) DESCRIPTION: /desc = "Primer VAC1"
332      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
334 CATGCCATGG GTGAGGCCTC CGAGCTGTTT C
336 (2) INFORMATION FOR SEQ ID NO: 16:
338      (i) SEQUENCE CHARACTERISTICS:
339          (A) LENGTH: 54 base pairs
340          (B) TYPE: nucleic acid
341          (C) STRANDEDNESS: single
342          (D) TOPOLOGY: linear
344      (ii) MOLECULE TYPE: other nucleic acid
345          (A) DESCRIPTION: /desc = "Primer VAC2"
350      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
352 TCGGAGCTCT TACATAGTAT CGACTAAAAG TCCGGACTGG AGCTTGCTCC GCAC
354 (2) INFORMATION FOR SEQ ID NO: 17:
356      (i) SEQUENCE CHARACTERISTICS:
357          (A) LENGTH: 10 base pairs
358          (B) TYPE: nucleic acid
359          (C) STRANDEDNESS: single
360          (D) TOPOLOGY: linear
362      (ii) MOLECULE TYPE: other nucleic acid
363          (A) DESCRIPTION: /desc = "Sequence present in plasmid
W--> 364          pc8 that includes a StuI site (Example C2)."
```

369 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17: 10

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371 CGAGGCCTCG
373 (2) INFORMATION FOR SEQ ID NO: 18:
375      (i) SEQUENCE CHARACTERISTICS:
376          (A) LENGTH: 28 base pairs
377          (B) TYPE: nucleic acid
378          (C) STRANDEDNESS: single
379          (D) TOPOLOGY: linear
381      (ii) MOLECULE TYPE: other nucleic acid
382          (A) DESCRIPTION: /desc = "Top strand of
W--> 383          oligonucleotide linker used in Example C3."
```

388 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18: 28

```

390 CATGGCTTCC TCAGTTCTTT CCTCTGCA
392 (2) INFORMATION FOR SEQ ID NO: 19:
394      (i) SEQUENCE CHARACTERISTICS:
395          (A) LENGTH: 20 base pairs
396          (B) TYPE: nucleic acid
397          (C) STRANDEDNESS: single
398          (D) TOPOLOGY: linear
400      (ii) MOLECULE TYPE: other nucleic acid
401          (A) DESCRIPTION: /desc = "Bottom strand of
W--> 402          oligonucleotide linker used in Example C3."
```

407 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19: 20

```

409 GAGGAAAGAA CTGAGGAAGC
```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/901,737

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Input Set : N:\Crf3\RULE60\09901737.txt

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L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]